A Corpus Linguistics Primer

Through AntConc

What is a corpus?

What?

It’s so simple.

It’s just a lot of words!

Well, not exactly.

What is a corpus?

A machine readable collection of texts from spoken or written sources that were created in a natural expressive context.

Machine readable: text formats that can be loaded, parsed and manipulated independent of platforms. Despite being technically ‘open’, they can have dense annotations identifying various kinds of descriptive features. Typically these files are stored in the form of plain text files stored in ASCII or UTF encoding or structured XML files.

Natural expressive context: texts that were not created for the purpose of corpus analysis; in other words, texts that partake in an authentic communication.

A **machine readable** collection of texts from spoken or written sources that were created in a **natural expressive context.**

It constitutes methodology for studying the nature of language.

In such a collection, it is expected that there is an intention:

- To identify the collection as representative and balanced in the context of a language, variety, register, or genre. It has a purpose, in other words, so it should aim to reference what is typical.
- To analyse the collection linguistically (attention to word frequency, language change, morphemes, and the like), with explicit annotations.

Types of corpora

General: represents a language in a holistic way.

Specific: restricted to a particular variety, register, or purpose.

Raw: contains files of only corpus material (plain text)

Annotated: contains additional descriptive information (usually with metadata), encoded with parts-of-speech tags, or XML tags under the guidelines of the Text Encoding Initiative (TEI) or Corpus Encoding Standard (CES). Annotated corpuses include information *about* the text within *markup*. This kind of corpus can also be *lemmatized* (each word is followed by its lemma—the standard form that you would look up in the dictionary).

More types of corpora

Diachronic: shows language change over time.

Synchronic: shows a snapshot of language in a time.

Monolingual: shows one language.

Parallel: shows the same text in multiple languages.

Static: have a fixed size (e.g. British National Corpus).

Dynamic: can be constantly extended (e.g. Bank of England).

Does this analysis constitute a theory of language?

Strictly speaking, no. These analyses offer loads of information about huge amounts of textual data, but they only offer information about frequencies. There is no straightforward semantic meaning in a corpora; what you are seeing in corpus analysis is:

- Frequencies of items (how often words or morphemes or grammatical structures occur in a text)
- Frequencies of co-occurring things (that is, groups of words or grammatical structures)

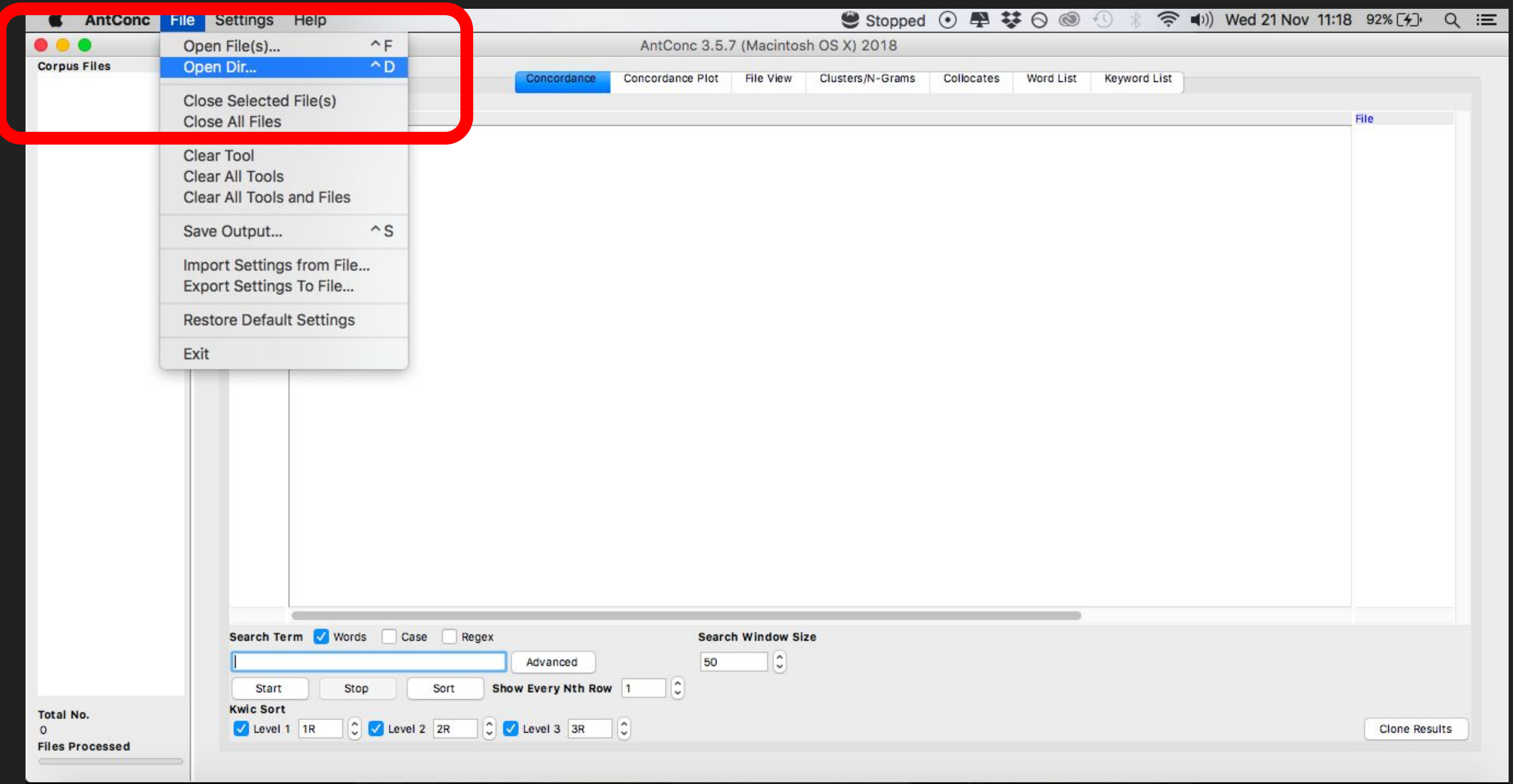
The work of interpretation still needs to be done; you need to decide what is meaningful. Remember, though, that ***formal differences reflect functional differences*****.** Formal qualities illustrate functional regularities in communication.

AntConc <http://www.laurenceanthony.net/software.html>

Pros: Free, well-maintained application; can search and analyse multiple texts in a corpus; has impressive key-word-in-context functions.

Cons: It can only perform basic corpus analyses (i.e., it cannot do more complex linguistic analyses).

Getting started: File > OpenDir



Total No.
0
Files Processed

Search Term ☑ Words □ Case □ Regex

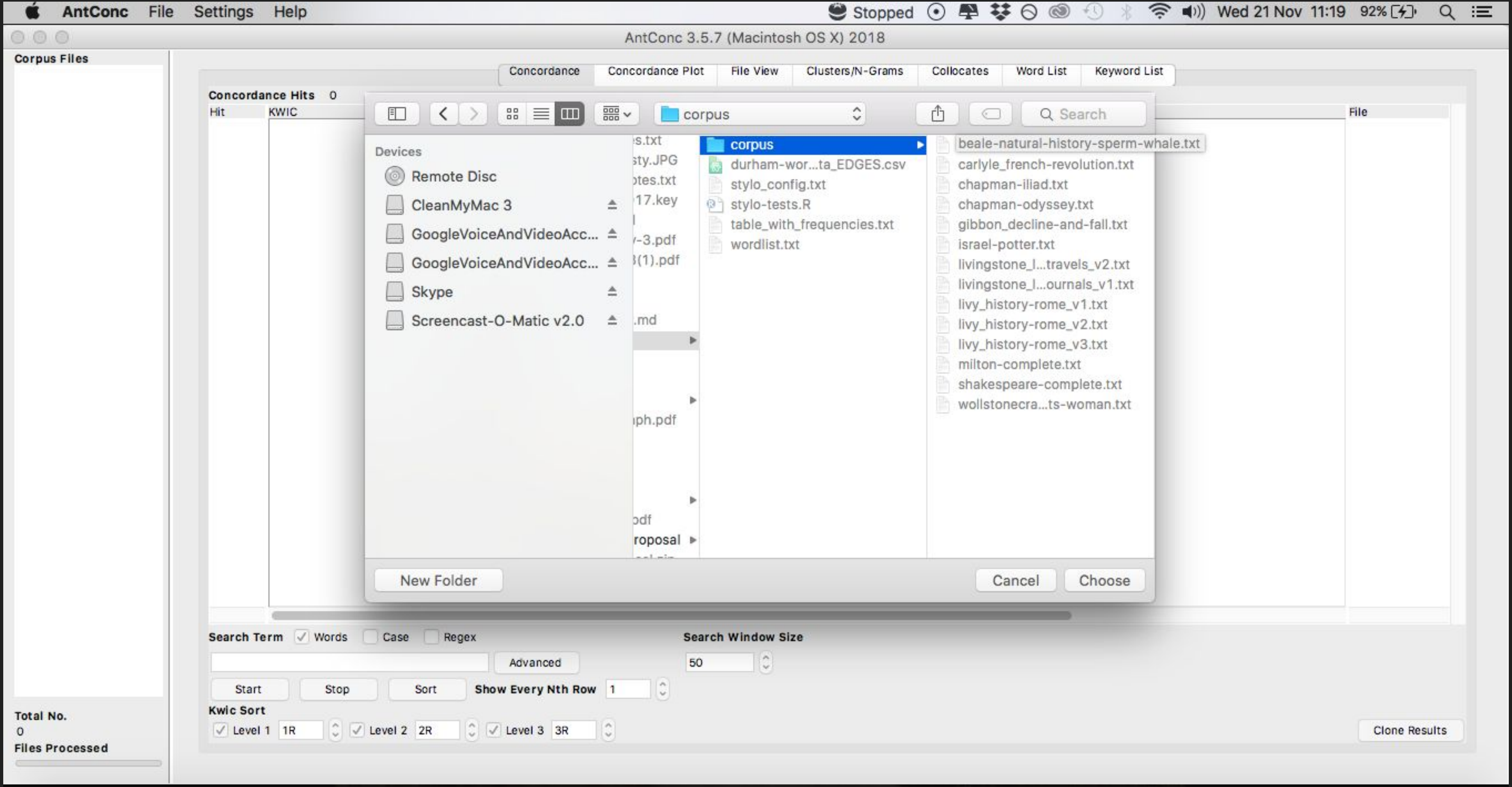
Search Window Size 50

Show Every Nth Row 1

Kwic Sort

☑ Level 1 1R ☑ Level 2 2R ☑ Level 3 3R

Choose a corpus folder with texts



AntConc 3.5.7 (Macintosh OS X) 2018

corpus

- durham-wor...ta_EDGES.csv
- stylo_config.txt
- stylo-tests.R
- table_with_frequencies.txt
- wordlist.txt

- beale-natural-history-sperm-whale.txt
- carlyle_french-revolution.txt
- chapman-iliad.txt
- chapman-odyssey.txt
- gibbon_decline-and-fall.txt
- israel-potter.txt
- livingstone_l...travels_v2.txt
- livingstone_l...ournals_v1.txt
- livy_history-rome_v1.txt
- livy_history-rome_v2.txt
- livy_history-rome_v3.txt
- milton-complete.txt
- shakespeare-complete.txt
- wollstonecra...ts-woman.txt

Concordance Hits 0

Search Term ☑ Words □ Case □ Regex

Search Window Size 50

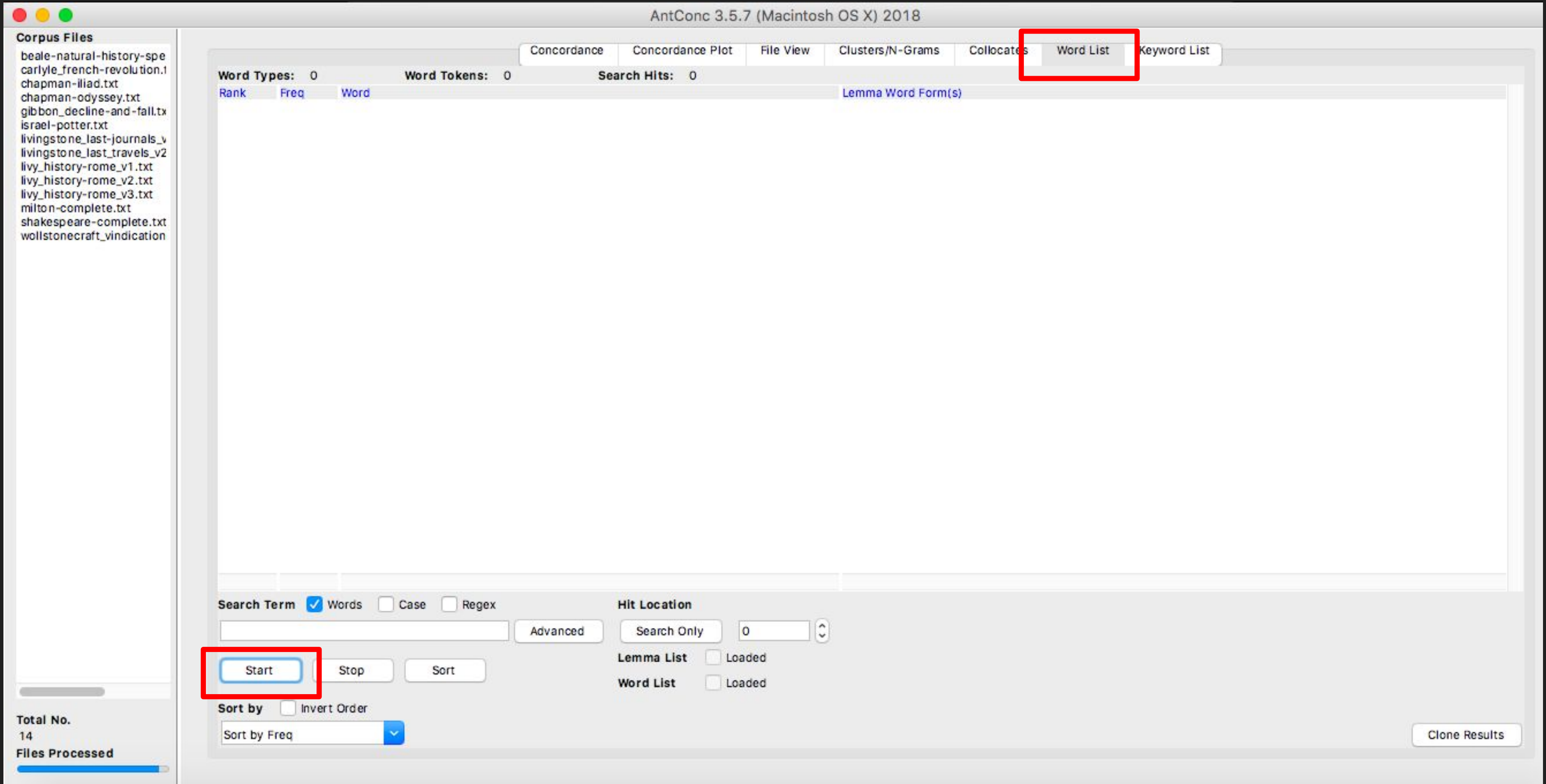
Show Every Nth Row 1

Kwic Sort ☑ Level 1 1R ☑ Level 2 2R ☑ Level 3 3R

Total No. 0

Files Processed

After texts have loaded, click the Word List tab (top right), then click Start (lower left) to generate a word list



Corpus Files

beale-natural-history-spe
carlyle_french-revolution.t
chapman-iliad.txt
chapman-odyssey.txt
gibbon_decline-and-fall.tx
israel-potter.txt
livingstone_last-journals_v
livingstone_last_travels_v2
livy_history-rome_v1.txt
livy_history-rome_v2.txt
livy_history-rome_v3.txt
milton-complete.txt
shakespeare-complete.txt
wollstonecraft_vindication

Total No.
14
Files Processed

Word Types: 0 Word Tokens: 0 Search Hits: 0

Search Term ☑ Words □ Case □ Regex

Hit Location 0

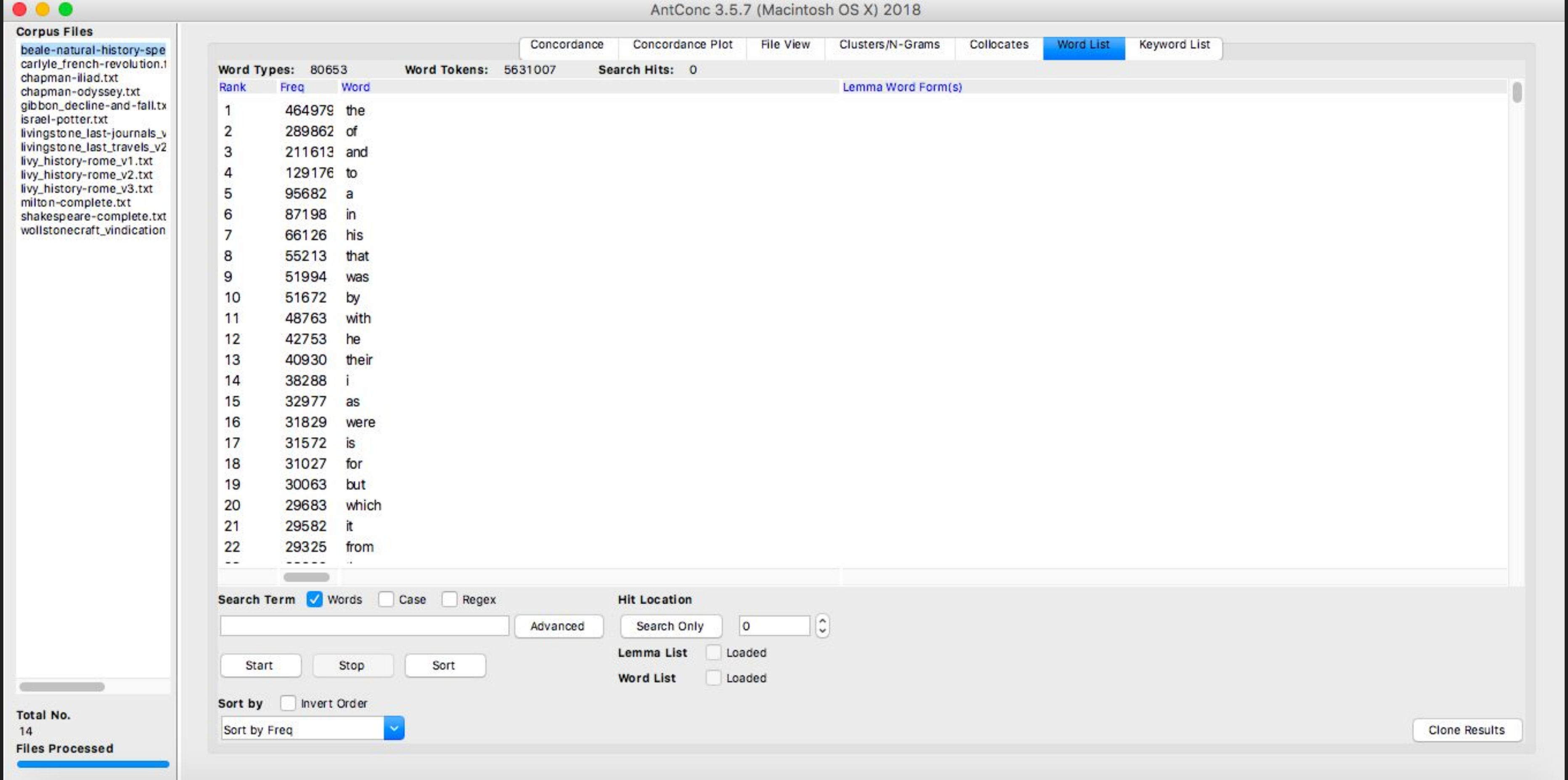
Lemma List □ Loaded

Word List □ Loaded

Sort by □ Invert Order

Sort by Freq

This is what you should get



AntConc 3.5.7 (Macintosh OS X) 2018

Corpus Files

beale-natural-history-spe
carlyle_french-revolution.t
chapman-iliad.txt
chapman-odyssey.txt
gibbon_decline-and-fall.tx
israel-potter.txt
livingstone_last-journals_v
livingstone_last_travels_v2
livy_history-rome_v1.txt
livy_history-rome_v2.txt
livy_history-rome_v3.txt
milton-complete.txt
shakespeare-complete.txt
wollstonecraft_vindication

Total No.
14
Files Processed

Word Types: 80653 **Word Tokens:** 5631007 **Search Hits:** 0

Rank	Freq	Word	Lemma Word Form(s)
1	464979	the	
2	289862	of	
3	211613	and	
4	129176	to	
5	95682	a	
6	87198	in	
7	66126	his	
8	55213	that	
9	51994	was	
10	51672	by	
11	48763	with	
12	42753	he	
13	40930	their	
14	38288	i	
15	32977	as	
16	31829	were	
17	31572	is	
18	31027	for	
19	30063	but	
20	29683	which	
21	29582	it	
22	29325	from	

Search Term ☑ Words □ Case □ Regex

Hit Location 0

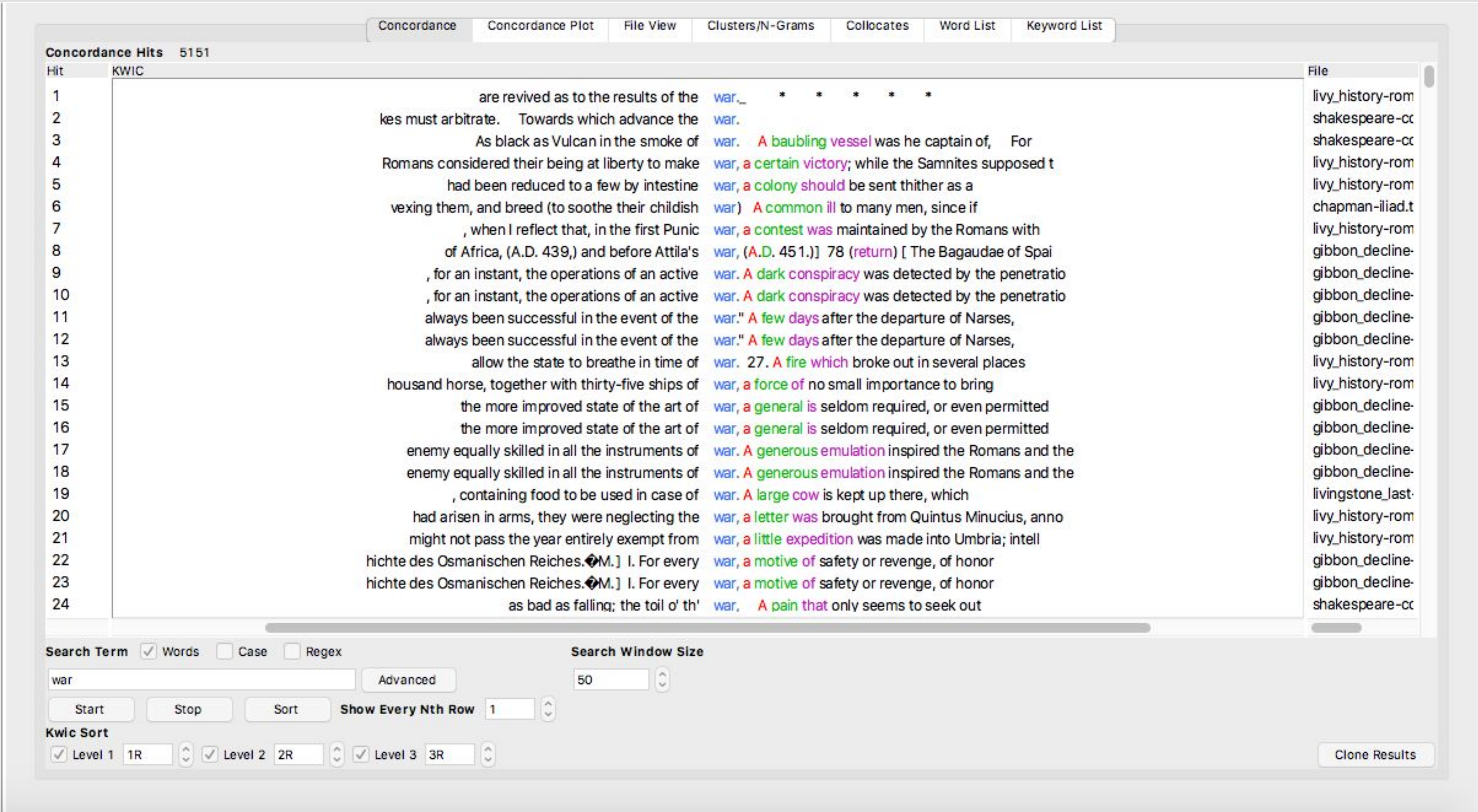
Lemma List □ Loaded

Word List □ Loaded

Sort by □ Invert Order

Sort by Freq

Now click on the Concordances tab and enter a search term



Concordance Hits 5151

Hit	KWIC		File
1	are revived as to the results of the	war._ * * * * *	livy_history-rom
2	kes must arbitrate. Towards which advance the	war.	shakespeare-co
3	As black as Vulcan in the smoke of	war. A baubling vessel was he captain of, For	shakespeare-co
4	Romans considered their being at liberty to make	war, a certain victory; while the Samnites supposed t	livy_history-rom
5	had been reduced to a few by intestine	war, a colony should be sent thither as a	livy_history-rom
6	vexing them, and breed (to soothe their childish	war) A common ill to many men, since if	chapman-iliad.t
7	, when I reflect that, in the first Punic	war, a contest was maintained by the Romans with	livy_history-rom
8	of Africa, (A.D. 439,) and before Attila's	war, (A.D. 451.)] 78 (return) [The Bagaudae of Spai	gibbon_decline-
9	, for an instant, the operations of an active	war. A dark conspiracy was detected by the penetratio	gibbon_decline-
10	, for an instant, the operations of an active	war. A dark conspiracy was detected by the penetratio	gibbon_decline-
11	always been successful in the event of the	war." A few days after the departure of Narses,	gibbon_decline-
12	always been successful in the event of the	war." A few days after the departure of Narses,	gibbon_decline-
13	allow the state to breathe in time of	war. 27. A fire which broke out in several places	livy_history-rom
14	housand horse, together with thirty-five ships of	war, a force of no small importance to bring	livy_history-rom
15	the more improved state of the art of	war, a general is seldom required, or even permitted	gibbon_decline-
16	the more improved state of the art of	war, a general is seldom required, or even permitted	gibbon_decline-
17	enemy equally skilled in all the instruments of	war. A generous emulation inspired the Romans and the	gibbon_decline-
18	enemy equally skilled in all the instruments of	war. A generous emulation inspired the Romans and the	gibbon_decline-
19	, containing food to be used in case of	war. A large cow is kept up there, which	livingstone_last-
20	had arisen in arms, they were neglecting the	war, a letter was brought from Quintus Minucius, anno	livy_history-rom
21	might not pass the year entirely exempt from	war, a little expedition was made into Umbria; intell	livy_history-rom
22	hichte des Osmanischen Reiches.�M.] I. For every	war, a motive of safety or revenge, of honor	gibbon_decline-
23	hichte des Osmanischen Reiches.�M.] I. For every	war, a motive of safety or revenge, of honor	gibbon_decline-
24	as bad as falling; the toil o' th'	war. A pain that only seems to seek out	shakespeare-co

Search Term ☑ Words □ Case □ Regex

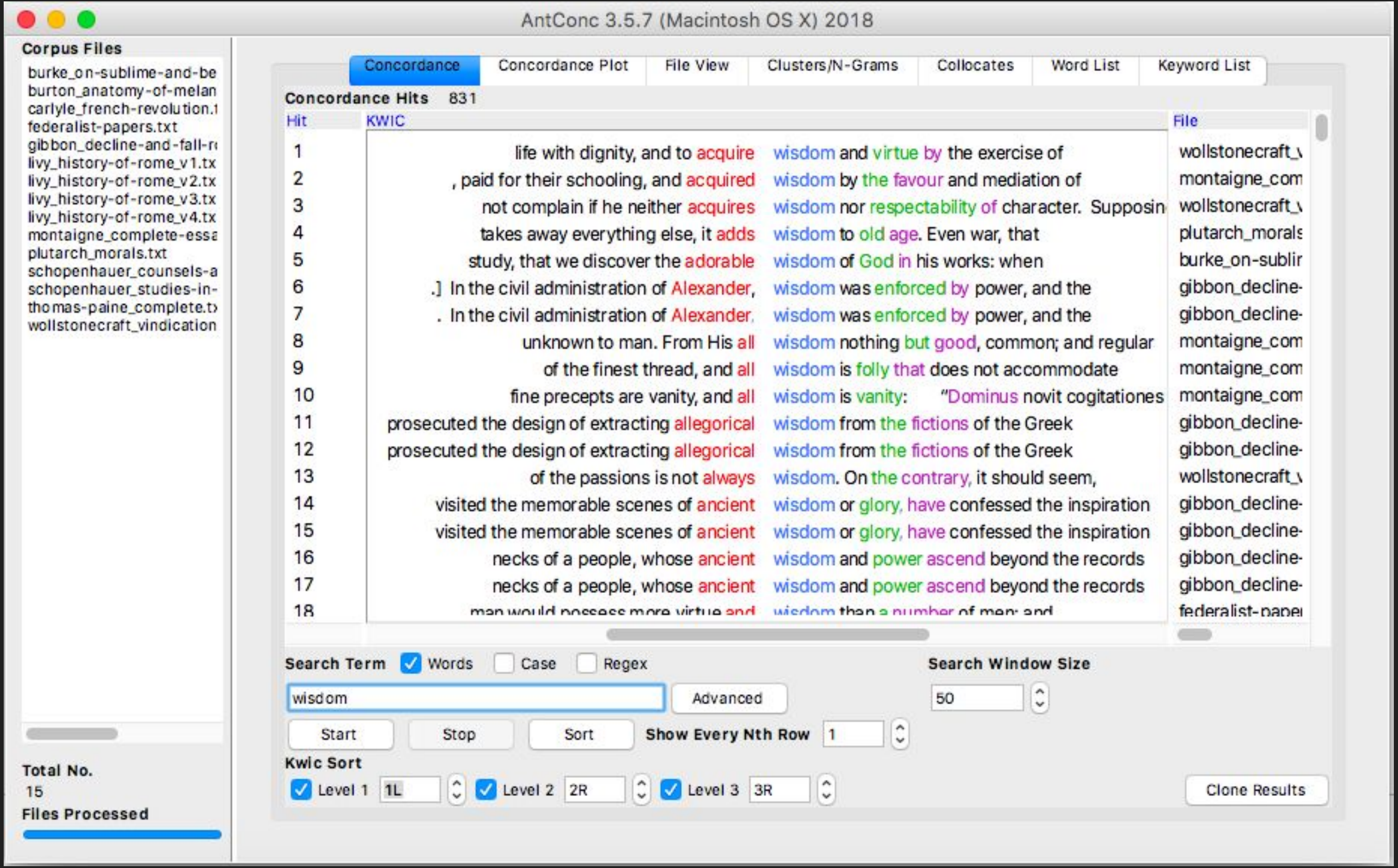
war

Search Window Size 50

Show Every Nth Row 1

Kwic Sort ☑ Level 1 1R ☑ Level 2 2R ☑ Level 3 3R

Adjust the concordance results from right to left



AntConc 3.5.7 (Macintosh OS X) 2018

Corpus Files

burke_on-sublime-and-be
burton_anatomy-of-melan
carlyle_french-revolution.t
federalist-papers.txt
gibbon_decline-and-fall-r
livy_history-of-rome_v1.tx
livy_history-of-rome_v2.tx
livy_history-of-rome_v3.tx
livy_history-of-rome_v4.tx
montaigne_complete-essa
plutarch_morals.txt
schopenhauer_counsels-a
schopenhauer_studies-in-
thomas-paine_complete.t
wollstonecraft_vindication

Total No.
15
Files Processed

Concordance Hits 831

Hit	KWIC		File
1	life with dignity, and to acquire	wisdom and virtue by the exercise of	wollstonecraft_v
2	, paid for their schooling, and acquired	wisdom by the favour and mediation of	montaigne_com
3	not complain if he neither acquires	wisdom nor respectability of character. Supposin	wollstonecraft_v
4	takes away everything else, it adds	wisdom to old age. Even war, that	plutarch_morals
5	study, that we discover the adorable	wisdom of God in his works: when	burke_on-sublir
6	.] In the civil administration of Alexander,	wisdom was enforced by power, and the	gibbon_decline-
7	. In the civil administration of Alexander,	wisdom was enforced by power, and the	gibbon_decline-
8	unknown to man. From His all	wisdom nothing but good, common; and regular	montaigne_com
9	of the finest thread, and all	wisdom is folly that does not accommodate	montaigne_com
10	fine precepts are vanity, and all	wisdom is vanity: "Dominus novit cogitationes	montaigne_com
11	prosecuted the design of extracting allegorical	wisdom from the fictions of the Greek	gibbon_decline-
12	prosecuted the design of extracting allegorical	wisdom from the fictions of the Greek	gibbon_decline-
13	of the passions is not always	wisdom. On the contrary, it should seem,	wollstonecraft_v
14	visited the memorable scenes of ancient	wisdom or glory, have confessed the inspiration	gibbon_decline-
15	visited the memorable scenes of ancient	wisdom or glory, have confessed the inspiration	gibbon_decline-
16	necks of a people, whose ancient	wisdom and power ascend beyond the records	gibbon_decline-
17	necks of a people, whose ancient	wisdom and power ascend beyond the records	gibbon_decline-
18	man would possess more virtue and	wisdom than a number of men; and	federalist-pape

Search Term ☑ Words ☐ Case ☐ Regex

wisdom

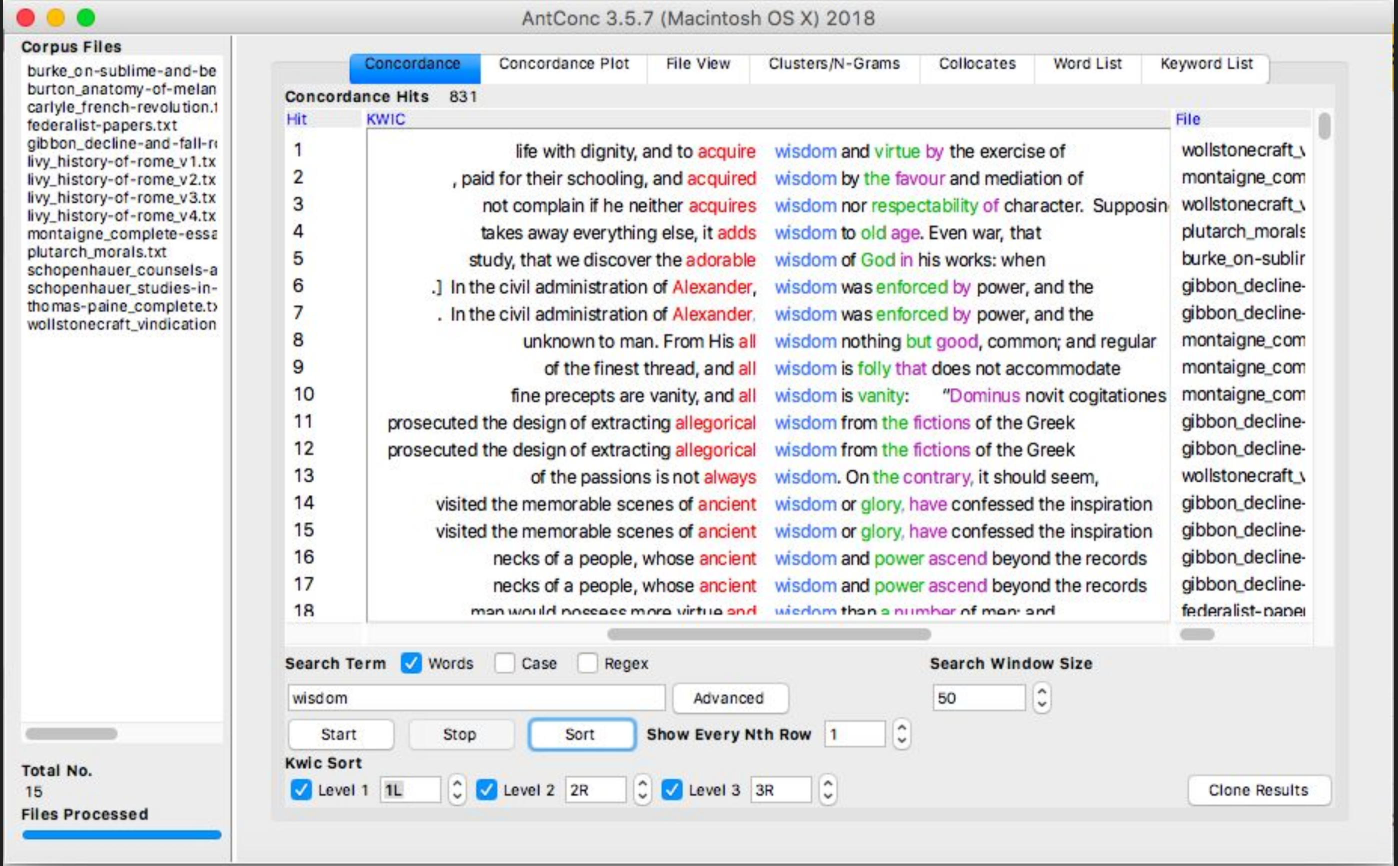
Search Window Size 50

Show Every Nth Row 1

Kwic Sort

☑ Level 1 1L ☑ Level 2 2R ☑ Level 3 3R

Use the “Sort” button to arrange alphabetically



Corpus Files

burke_on-sublime-and-be
burton_anatomy-of-melan
carlyle_french-revolution.1
federalist-papers.txt
gibbon_decline-and-fall-r
livy_history-of-rome_v1.tx
livy_history-of-rome_v2.tx
livy_history-of-rome_v3.tx
livy_history-of-rome_v4.tx
montaigne_complete-essa
plutarch_morals.txt
schopenhauer_counsels-a
schopenhauer_studies-in-
thomas-paine_complete.t
wollstonecraft_vindication

Total No.
15
Files Processed

Concordance Hits 831

Hit	KWIC			File
1	life with dignity, and to acquire	wisdom	and virtue by the exercise of	wollstonecraft_
2	, paid for their schooling, and acquired	wisdom	by the favour and mediation of	montaigne_com
3	not complain if he neither acquires	wisdom	nor respectability of character. Supposin	wollstonecraft_
4	takes away everything else, it adds	wisdom	to old age. Even war, that	plutarch_morals
5	study, that we discover the adorable	wisdom	of God in his works: when	burke_on-sublir
6	.] In the civil administration of Alexander,	wisdom	was enforced by power, and the	gibbon_decline-
7	. In the civil administration of Alexander,	wisdom	was enforced by power, and the	gibbon_decline-
8	unknown to man. From His all	wisdom	nothing but good, common; and regular	montaigne_com
9	of the finest thread, and all	wisdom	is folly that does not accommodate	montaigne_com
10	fine precepts are vanity, and all	wisdom	is vanity: "Dominus novit cogitationes	montaigne_com
11	prosecuted the design of extracting allegorical	wisdom	from the fictions of the Greek	gibbon_decline-
12	prosecuted the design of extracting allegorical	wisdom	from the fictions of the Greek	gibbon_decline-
13	of the passions is not always	wisdom.	On the contrary, it should seem,	wollstonecraft_
14	visited the memorable scenes of ancient	wisdom	or glory, have confessed the inspiration	gibbon_decline-
15	visited the memorable scenes of ancient	wisdom	or glory, have confessed the inspiration	gibbon_decline-
16	necks of a people, whose ancient	wisdom	and power ascend beyond the records	gibbon_decline-
17	necks of a people, whose ancient	wisdom	and power ascend beyond the records	gibbon_decline-
18	man would possess more virtue and	wisdom	than a number of men; and	federalist-pape

Search Term ☑ Words □ Case □ Regex

wisdom

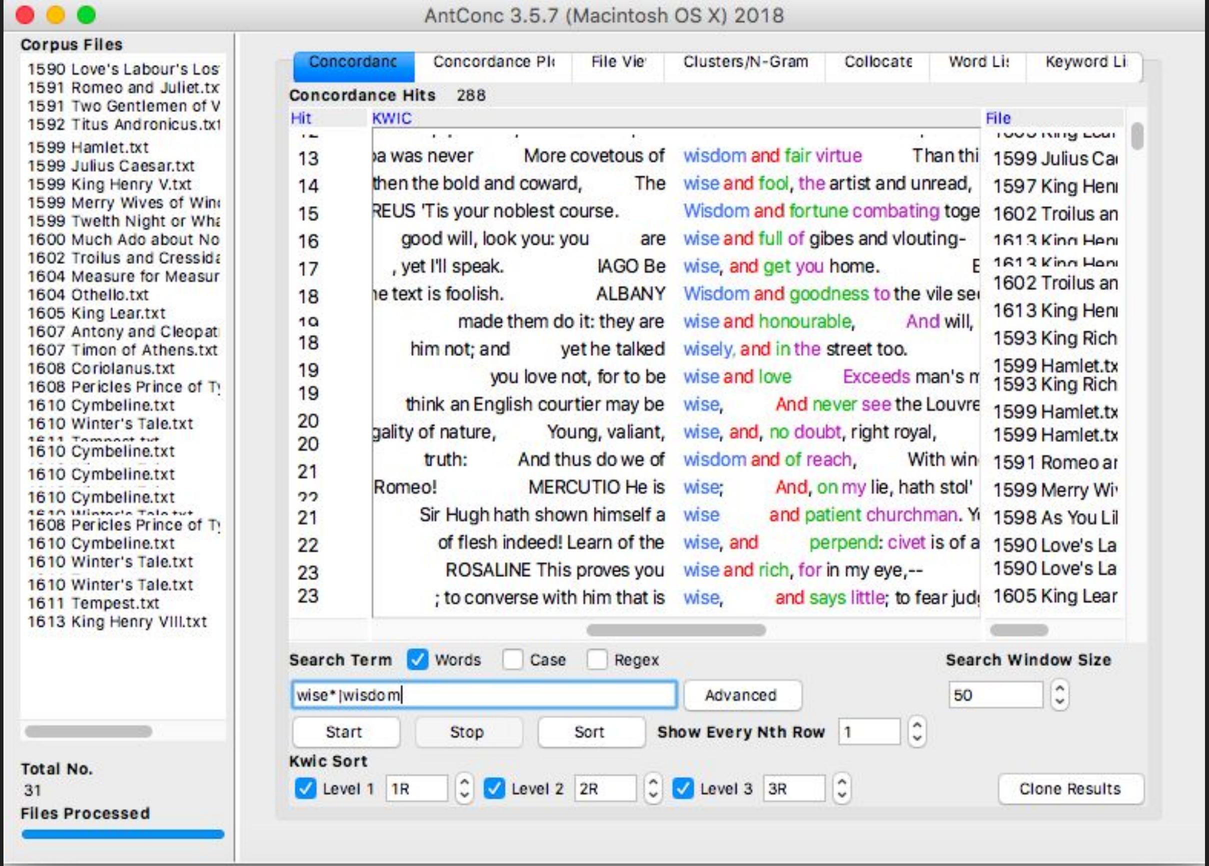
Search Window Size 50

Show Every Nth Row 1

Kwic Sort

☑ Level 1 1L ☑ Level 2 2R ☑ Level 3 3R

Use regular expressions to do flexible searches: wildcard (*), ? and pipe (|)



Corpus Files

```
1590 Love's Labour's Los
1591 Romeo and Juliet.tx
1591 Two Gentlemen of V
1592 Titus Andronicus.txt
1599 Hamlet.txt
1599 Julius Caesar.txt
1599 King Henry V.txt
1599 Merry Wives of Win
1599 Twelth Night or Wha
1600 Much Ado about No
1602 Troilus and Cressida
1604 Measure for Measur
1604 Othello.txt
1605 King Lear.txt
1607 Antony and Cleopat
1607 Timon of Athens.txt
1608 Coriolanus.txt
1608 Pericles Prince of T
1610 Cymbeline.txt
1610 Winter's Tale.txt
1611 Tempest.txt
1610 Cymbeline.txt
1610 Cymbeline.txt
1610 Cymbeline.txt
1610 Winter's Tale.txt
1608 Pericles Prince of T
1610 Cymbeline.txt
1610 Winter's Tale.txt
1610 Winter's Tale.txt
1611 Tempest.txt
1613 King Henry VIII.txt
```

Total No.
31
Files Processed

Concordance Hits 288

```
Hit  KWIC                                                                                         File
13   a was never        More covetous of  wisdom and fair virtue        Than thi              1599 Julius Ca
14   then the bold and coward,      The  wise and fool, the artist and unread,             1597 King Hen
15   REUS 'Tis your noblest course.       Wisdom and fortune combating toge                1602 Troilus an
16        good will, look you: you     are  wise and full of gibes and vlouting-           1613 King Hen
17     , yet I'll speak.          IAGO Be  wise, and get you home.                 E        1613 King Hen
18   e text is foolish.          ALBANY  Wisdom and goodness to the vile se                1602 Troilus an
19             made them do it: they are  wise and honourable,        And will,            1613 King Hen
18        him not; and        yet he talked  wisely, and in the street too.                1593 King Rich
19                you love not, for to be  wise and love          Exceeds man's m          1599 Hamlet.tx
19         think an English courtier may be  wise,         And never see the Louvre        1593 King Rich
20   gality of nature,       Young, valiant,  wise, and, no doubt, right royal,            1599 Hamlet.tx
20         truth:       And thus do we of  wisdom and of reach,        With win            1599 Hamlet.tx
21   Romeo!            MERCUTIO He is  wise;          And, on my lie, hath stol'           1591 Romeo ar
22       Sir Hugh hath shown himself a  wise        and patient churchman. Y               1599 Merry Wi
21          of flesh indeed! Learn of the  wise, and         perpend: civet is of a        1598 As You Li
22           ROSALINE This proves you  wise and rich, for in my eye,--                     1590 Love's La
23       ; to converse with him that is  wise,         and says little; to fear jud        1590 Love's La
23                                                                                          1605 King Lear
```

Search Term ☑ Words □ Case □ Regex

wise*|wisdom

Search Window Size 50

Show Every Nth Row 1

Kwic Sort

☑ Level 1 1R ☑ Level 2 2R ☑ Level 3 3R

More on wildcards

Wildcards are used for matching patterns. Technically they are characters that can be used as a substitute for any class of characters in a search, which increases the flexibility and efficiency of searches.

For a full list of available wildcard operators and what they mean, go to Global Settings > Wildcard Settings.

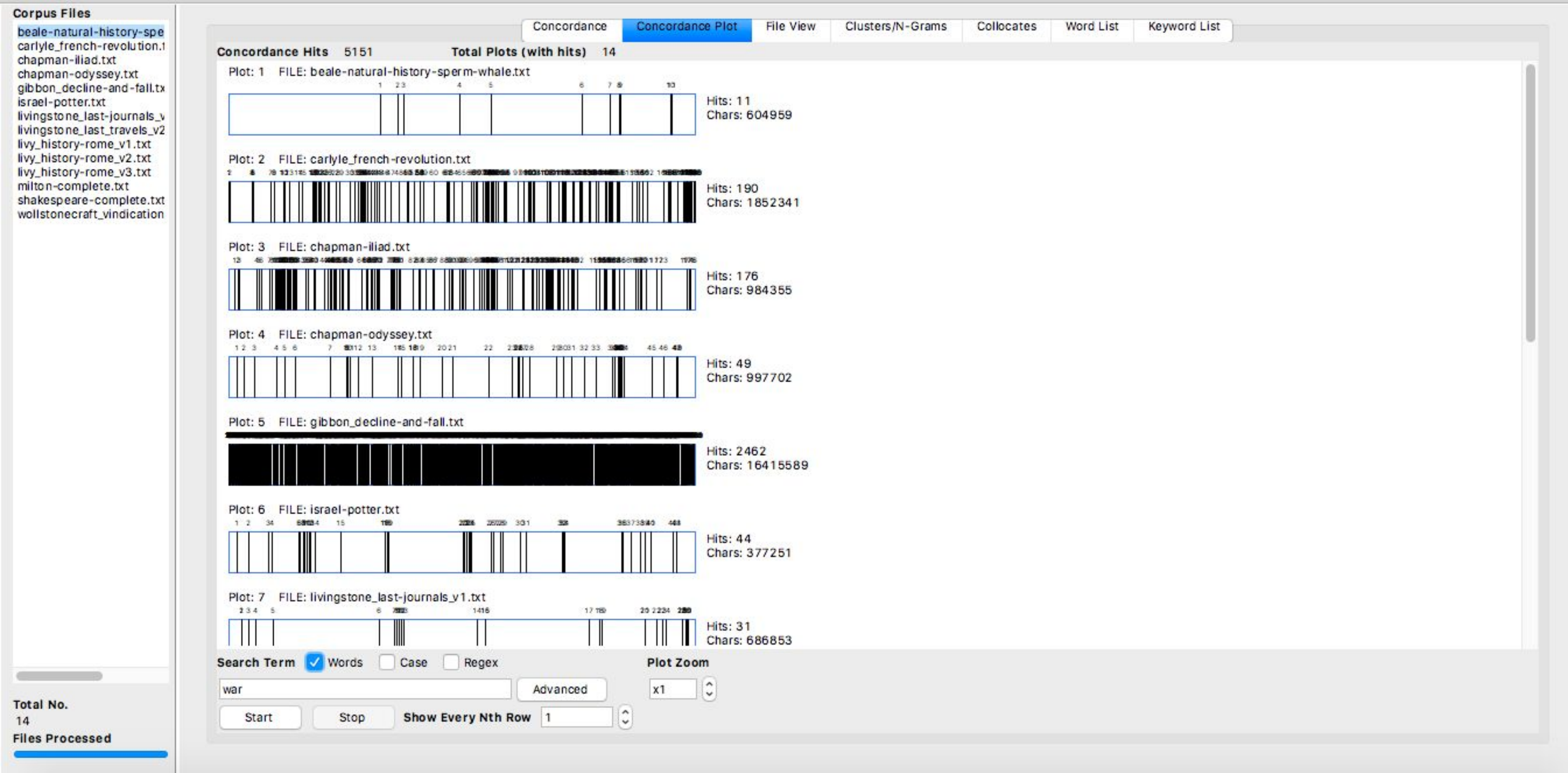
The ? operator is “less greedy” than the * operator:

wom?n – both women and woman

m?n – man and men, but also min

m*n is more flexible: you’ll get mean, melon, etc.

The Concordance Plot tab visualises the search results in each file



Corpus Files

beale-natural-history-spe
carlyle_french-revolution.t
chapman-iliad.txt
chapman-odyssey.txt
gibbon_decline-and-fall.tx
israel-potter.txt
livingstone_last-journals_v
livingstone_last_travels_v2
livy_history-rome_v1.txt
livy_history-rome_v2.txt
livy_history-rome_v3.txt
milton-complete.txt
shakespeare-complete.txt
wollstonecraft_vindication

Total No. 14

Files Processed

Concordance Hits 5151 **Total Plots (with hits)** 14

Plot: 1 FILE: beale-natural-history-sperm-whale.txt
Hits: 11
Chars: 604959

Plot: 2 FILE: carlyle_french-revolution.txt
Hits: 190
Chars: 1852341

Plot: 3 FILE: chapman-iliad.txt
Hits: 176
Chars: 984355

Plot: 4 FILE: chapman-odyssey.txt
Hits: 49
Chars: 997702

Plot: 5 FILE: gibbon_decline-and-fall.txt
Hits: 2462
Chars: 16415589

Plot: 6 FILE: israel-potter.txt
Hits: 44
Chars: 377251

Plot: 7 FILE: livingstone_last-journals_v1.txt
Hits: 31
Chars: 686853

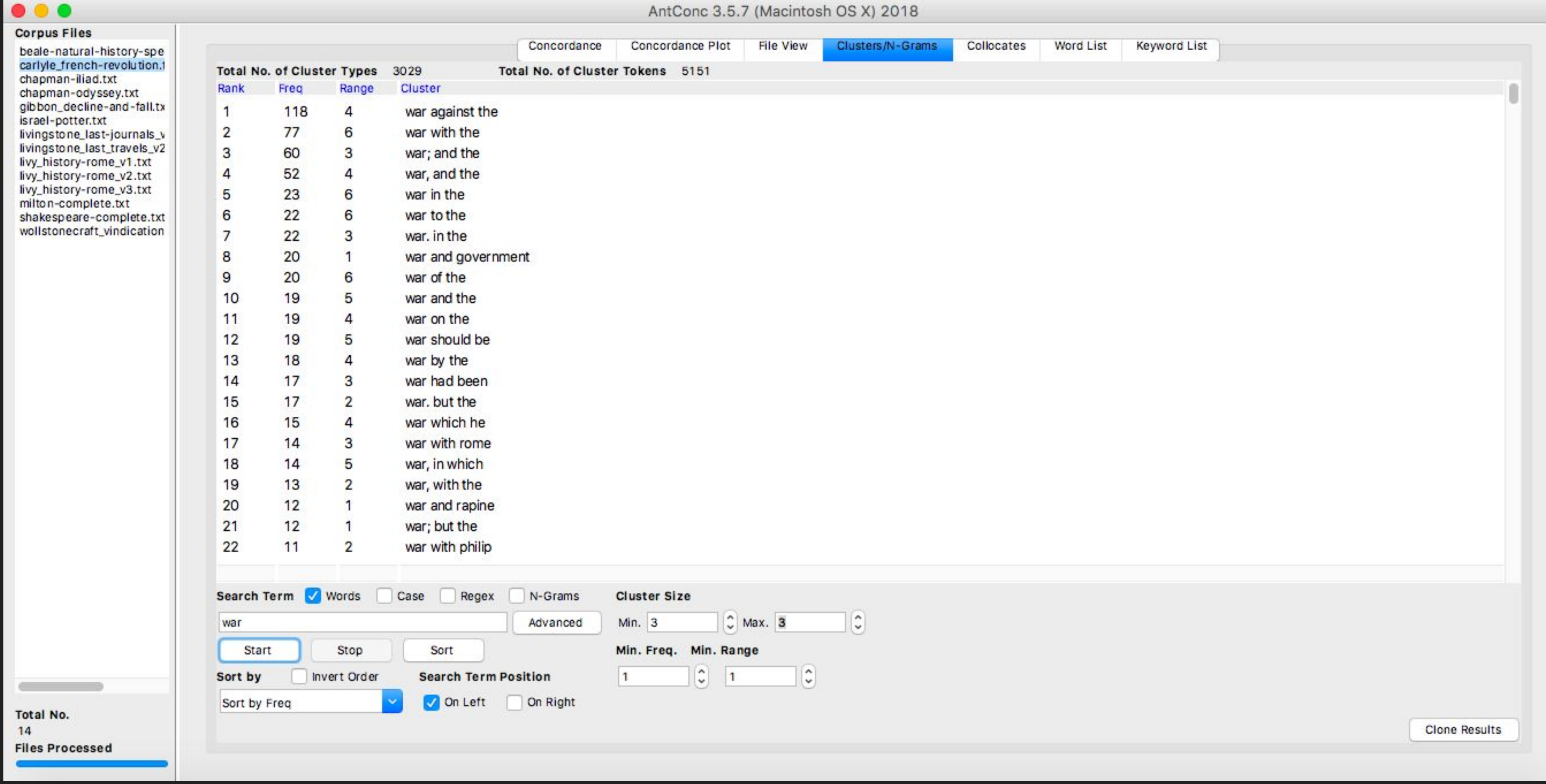
Search Term ☑ Words □ Case □ Regex

war

Plot Zoom x1

Show Every Nth Row 1

Ngram search finds groups of co-occurring words (adjust the “cluster size” to see more context)



Corpus Files

beale-natural-history-spe
carlyle_french-revolution.t
chapman-iliad.txt
chapman-odyssey.txt
gibbon_decline-and-fall.tx
israel-potter.txt
livingstone_last-journals_v
livingstone_last_travels_v2
livy_history-rome_v1.txt
livy_history-rome_v2.txt
livy_history-rome_v3.txt
milton-complete.txt
shakespeare-complete.txt
wollstonecraft_vindication

Total No.
14
Files Processed

Total No. of Cluster Types 3029 Total No. of Cluster Tokens 5151

Rank	Freq	Range	Cluster
1	118	4	war against the
2	77	6	war with the
3	60	3	war; and the
4	52	4	war, and the
5	23	6	war in the
6	22	6	war to the
7	22	3	war. in the
8	20	1	war and government
9	20	6	war of the
10	19	5	war and the
11	19	4	war on the
12	19	5	war should be
13	18	4	war by the
14	17	3	war had been
15	17	2	war. but the
16	15	4	war which he
17	14	3	war with rome
18	14	5	war, in which
19	13	2	war, with the
20	12	1	war and rapine
21	12	1	war; but the
22	11	2	war with philip

Search Term ☑ Words ☐ Case ☐ Regex ☐ N-Grams

war [Advanced]

[Start] [Stop] [Sort]

Cluster Size Min. 3 Max. 3

Min. Freq. 1 Min. Range 1

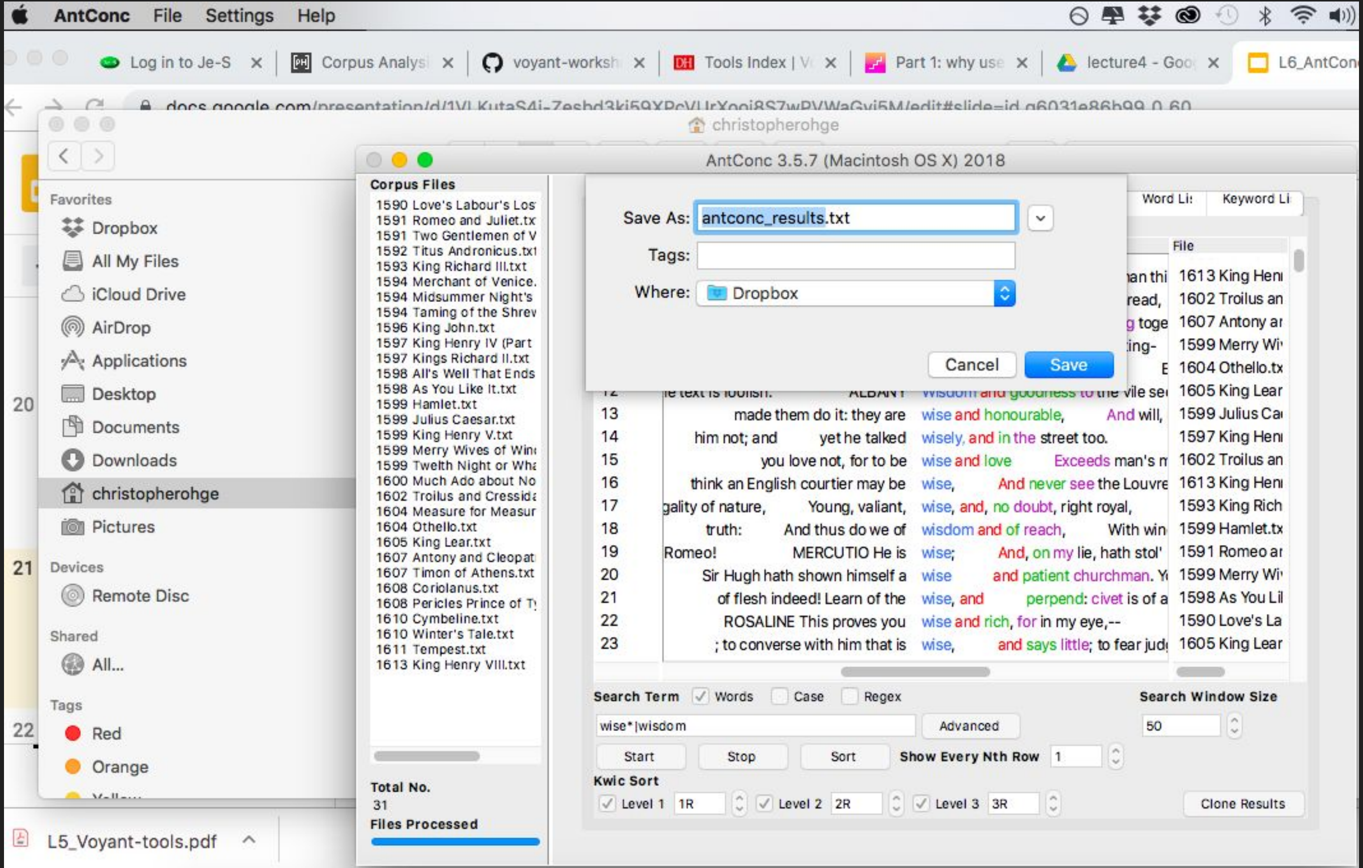
Sort by ☐ Invert Order

Sort by Freq

Search Term Position ☑ On Left ☐ On Right

[Clone Results]

Save the output as a txt file



Save As: antconc_results.txt

Tags:

Where: Dropbox

Corpus Files

```
1590 Love's Labour's Los
1591 Romeo and Juliet.tx
1591 Two Gentlemen of V
1592 Titus Andronicus.txt
1593 King Richard III.txt
1594 Merchant of Venice.
1594 Midsummer Night's
1594 Taming of the Shrev
1596 King John.txt
1597 King Henry IV (Part
1597 Kings Richard II.txt
1598 All's Well That Ends
1598 As You Like It.txt
1599 Hamlet.txt
1599 Julius Caesar.txt
1599 King Henry V.txt
1599 Merry Wives of Win
1599 Twelth Night or Wha
1600 Much Ado about No
1602 Troilus and Cressida
1604 Measure for Measur
1604 Othello.txt
1605 King Lear.txt
1607 Antony and Cleopat
1607 Timon of Athens.txt
1608 Coriolanus.txt
1608 Pericles Prince of T
1610 Cymbeline.txt
1610 Winter's Tale.txt
1611 Tempest.txt
1613 King Henry VIII.txt
```

Total No.
31
Files Processed

```
                                                                                   1613 King Henr
                                                                                   1602 Troilus an
                                                                                   1607 Antony ar
                                                                                   1599 Merry Wi
                                                                                   1604 Othello.tx
12        le text is foolish.        ALBANY  wisdom and goodness to the vile se    1605 King Lear
13            made them do it: they are  wise and honourable,      And will,       1599 Julius Ca
14      him not; and       yet he talked  wisely, and in the street too.           1597 King Henr
15               you love not, for to be  wise and love      Exceeds man's m       1602 Troilus an
16         think an English courtier may be  wise,      And never see the Louvre   1613 King Henr
17   gality of nature,     Young, valiant,  wise, and, no doubt, right royal,      1593 King Rich
18      truth:       And thus do we of  wisdom and of reach,      With win         1599 Hamlet.tx
19   Romeo!            MERCUTIO He is  wise;       And, on my lie, hath stol'      1591 Romeo ar
20         Sir Hugh hath shown himself a  wise       and patient churchman. Y      1599 Merry Wi
21            of flesh indeed! Learn of the  wise, and      perpend: civet is of a 1598 As You Li
22             ROSALINE This proves you  wise and rich, for in my eye,--           1590 Love's La
23            ; to converse with him that is  wise,      and says little; to fear jud 1605 King Lear
```

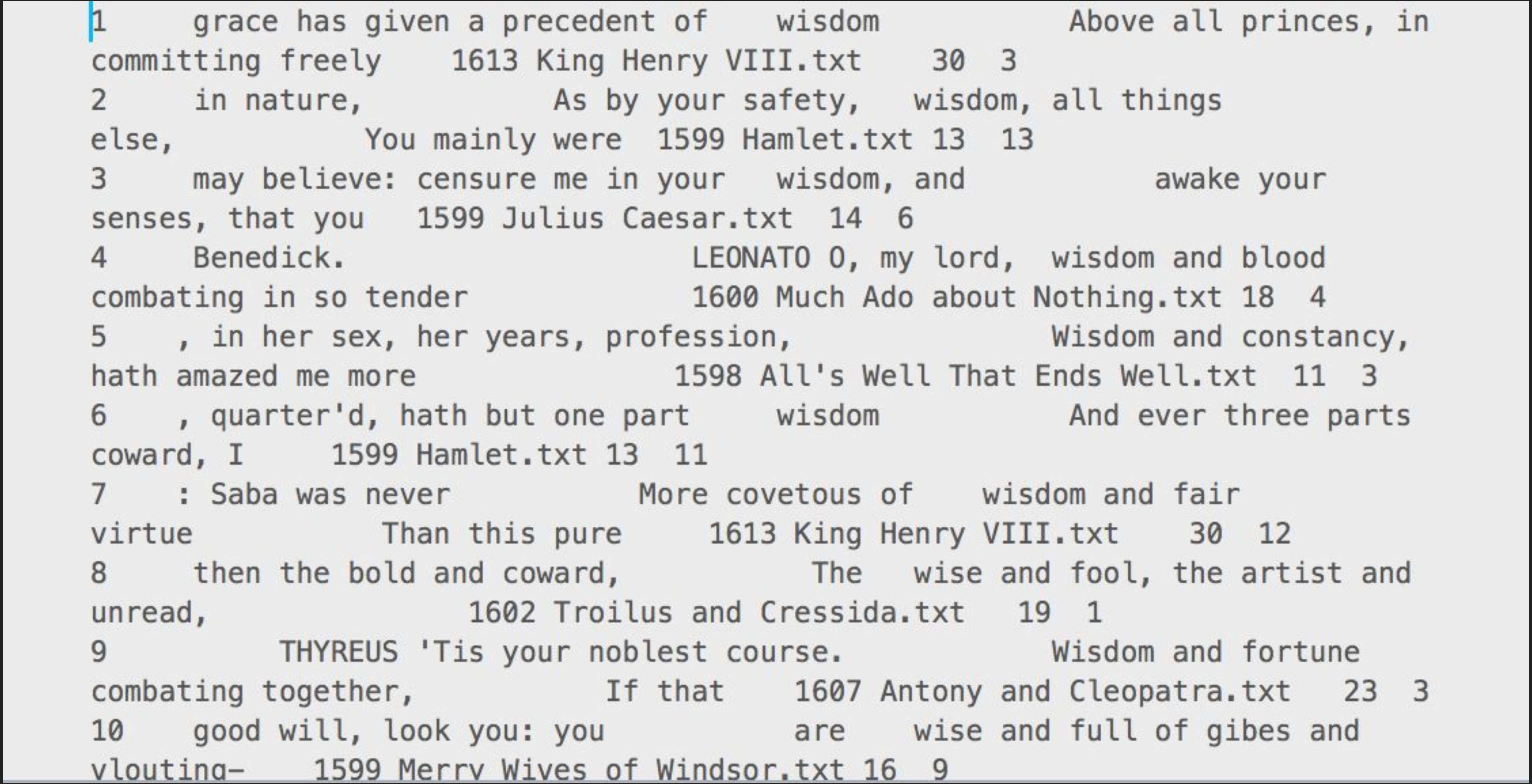
Search Term ☑ Words □ Case □ Regex

wise*|wisdom

Search Window Size 50

Show Every Nth Row 1

Kwic Sort ☑ Level 1 1R ☑ Level 2 2R ☑ Level 3 3R



```
1     grace has given a precedent of    wisdom          Above all princes, in
committing freely    1613 King Henry VIII.txt    30  3
2     in nature,            As by your safety,   wisdom, all things
else,            You mainly were  1599 Hamlet.txt 13  13
3     may believe: censure me in your   wisdom, and          awake your
senses, that you   1599 Julius Caesar.txt  14  6
4     Benedick.                    LEONATO O, my lord,  wisdom and blood
combating in so tender            1600 Much Ado about Nothing.txt 18  4
5    , in her sex, her years, profession,              Wisdom and constancy,
hath amazed me more               1598 All's Well That Ends Well.txt  11  3
6    , quarter'd, hath but one part     wisdom          And ever three parts
coward, I     1599 Hamlet.txt 13  11
7    : Saba was never           More covetous of    wisdom and fair
virtue           Than this pure     1613 King Henry VIII.txt    30  12
8     then the bold and coward,           The   wise and fool, the artist and
unread,              1602 Troilus and Cressida.txt   19  1
9          THYREUS 'Tis your noblest course.           Wisdom and fortune
combating together,           If that    1607 Antony and Cleopatra.txt   23  3
10    good will, look you: you           are    wise and full of gibes and
vlouting-    1599 Merry Wives of Windsor.txt 16  9
```

Compare corpora

First, click File > Clear all Tools and Files. Then:

Settings > Tool preferences > Keyword List

Under ‘Reference Corpus’, click “Use raw files”

Add Directory > select the folder containing the text files

Click Load; when it is finished, click Apply.

Click on the Keyword List tab, and click Start. (AntConc will warn that it needs to jump to the Word List––that is fine.) (Note that *keyness* is the frequency of a word compared to its frequency in a reference corpus.)

Exercises

1. Load the poetry corpus and sort the hapax legomena alphabetically.
2. Now sort the poetry results to find the most common function words in the poetry corpus.
3. Load the Shakespeare corpus into the program. You should still have the poetry files. How has the function words changed? Perform a basic word search.
4. In the Shakespeare corpus, generate collocates for m?n and wom?n. Now sort them by frequency to 1L.
5. In Whittier’s anti-slavery poems, find the names of the poems that talk about female slaves.
6. What are the most commonly negated words (that is, words preceded by “no”, “not” and “never”) in the c19-20 prose corpus?

BONUS: pos-tagged corpora

Download TagAnt at <http://www.laurenceanthony.net/software/tagant/>.

Open the same corpus directory in the same way as you would with AntConc.

Click start and the program will generated new text files that are annotated with part-of-speech tags.

(We have made the Whittier and *Moby-Dick* pos-tagged files available on the github repository at https://github.com/cmohge1/riga-text-analysis.)

Now run a tagged file through AntConc and see how your results differ (hint: adjust the Kwic sort feature to 2L in order to sort by POS tag).

What is the most common verb form in the King James Bible?